

33437
S/063/62/007/001/003/003
A057/A126

5.2100

AUTHOR: Biryukova, L. V.

TITLE: Production of titanium trichloride

PERIODICAL: Zhurnal vsesoyuznogo khimicheskogo obshchestva imeni D. I. Mendele-
yeva, v. 7, no. 1, 1962, 119 - 120

TEXT: A method for the preparation of crystalline titanium trichloride on pilot plant, or industrial scale is described. The process can be carried out periodically, or continuously by reducing titanium tetrachloride with magnesium, sodium, potassium metal, or titanium wastes. The latter are most convenient, since no side products are formed. An apparatus of 1X18H9T (1Kh18N9T) stainless steel was used in present case and 99.0 - 99.5% grade $TiCl_3$ obtained (impurities were iron, and oxygen). The titanium wastes (oxidized sponge, shavings, or titanium powder) were tabletted, dried at 100 - 120°C and filled into the reactor. The latter is then connected to the container with titanium tetrachloride and to the condenser. The whole system is kept hermetically sealed and dry argon blown through. The reactor is heated to 700°C and $TiCl_4$ added slowly; pressure and temperature must be controlled, since in the beginning the reaction occurs

BIRYUKOVA, L.V.; NEROSLAVSKAYA, L.L.

Oxidation of titanium at low temperatures. Zhur.prikl.khim.
35 no.7:1629-1633 J1 '62. (MIRA 15:8)
(Titanium) (Oxidation)

BIRYUKOVA, L.V.; OVCHARENKO, V.G.; MIRONOV, A.M.; KARABAYEV, A.A.

Testing atomizers and sprinklers used for spraying in absorbers.
Khim. prom. no.6:464-468 Je '63. (MIRA 16:8)

1. Vsesoyuznyy alyuminiyevo-magniyevyy institut i Solikamskiy
magniyevyy zavod.

(Absorption)

(Spraying and dusting equipment—Testing)

L 18419-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/WB
ACCESSION NR: AP3005800 S/0136/63/000/008/0066/0069

AUTHORS: Biryukova, L. V.; Neroslavskaya, L. L. 56

TITLE: Corrosion of titanium in acid and salt solutions

SOURCE: Tsvetnyye metalli*, no. 8, 1963, 66-69

TOPIC TAGS: titanium, HCl, acid solution, salt solution, corrosion, sulfuric acid, nitric acid, acetic acid, formic acid, KCl, NaCl, magnesium chloride, barium chloride, Ti

ABSTRACT: The degree of oxidation of titanium surface under various conditions has been studied. Special attention was given to the preparation of samples. The results of investigation showed that the corrosion rate depends largely upon the temperature and the length of its exposure to the air. The dependence of titanium corrosion upon the duration of its exposure to hydrochloric acid solutions at intervals between 1 and 24 hours, using various concentrations, has been investigated. It was found that titanium dissolved even at concentrations of 0.5% HCl; however, the dissolution is very slow. The

Card 1/2

L 18419-63

ACCESSION NR: AP3005800

dissolution rate increases noticeably at concentrations of 3 to 6% HCl and at 7% HCl, it shows a sharp increase. It was shown that temperature greatly effects the titanium dissolution rate in solutions of 1 to 10% HCl. The most aggressive acid was found to be H_2SO_4 , then HCl and finally HNO_3 . The solubility of titanium in organic acids such as acetic and formic is very slow. $CaCl_2$ and $BaCl_2$ solutions at room temperature showed a great effect on titanium corrosion. KCl and NaCl in acid solutions did not show an effect on titanium. However, $MgCl_2$, $BaCl_2$ and $CaCl_2$ increased corrosion considerably. Orig. art. has 3 tables and 4 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: ML

NO REF SOV: 001

OTHER: 005

Card 2/2

D'YACHENKO, V.V., kand.tekhn.nauk; MOROZOV, B.P., inzh.; TYLKINA, M.A.,
kand.tekhn.nauk; SAVITSKIY, Ye.M., doktor khim.nauk; Prinimali
uchastiye: VINOKUROV, V.P.; BIRYUKOVA, L.V.

Welding molybdenum with an addition alloying of the weld metal
by rhenium. Svar.proizv. no.7:1-4 J1 '62. (MIRA 15:12)

1. Moskovskiy aviatsionnyy ~~tekhnologichesk~~iy institut (for
D'yachenko, Morozov). 2. Institut metallurgii im. A.A.Baykova
(for Tylkina, Savitskiy).
(Molybdenum-Welding) (Rhenium)

KOPYLOVA, Z.A.; Prinsipali uchastiye: Alabyshova, S.I.; BIRYUKOVA, L.V.;
VASEVA, R.G.; TENIGINA, N.G.

Effect of vitamin C supplement on the level of ascorbic acid
in the milk and blood of puerperants in Archangel. Vop. pit.
21 no.6:56-60 N-D '62. (MIRA 17:5)

1. Iz kafedry biokhimii (zav. - dotsent M.D. Kiverin) Arkhangel'skogo
meditsinskogo instituta.

SEREDAVIN, D.G.; KONNOV, F.Ya.; YUSHKEVICH, G.I.; SILINA, L.D.; MOISHEYVA, Ye.I.; BLAGODAROVA, T.N.; BIRYUKOVA, M.S.; SOLOVEY, I.I.; REVIZOVA, V.Ye.; YEVPRYNTSEVA, Z.A.; DAVIDOVA, I.V.; SAVICHEVA, Z.N.; KHAUSTOVA, A.K., tekhn.red.

[Economy of Kuybyshev Province for 1958-1959; statistical collection]
Narodnoe khoziaistvo Kuibyshevskoi oblasti za 1958-1959 gody; statisticheskii sbornik. Kuibyshev, 1960. 174 p.

- (MIRA 14:1)
1. Kuybyshevskaya oblast'. Statisticheskoye upravleniye. 2. Nachal'-nik Statisticheskogo upravleniya Kuybyshevskoy oblasti (for Seredavin).
 3. Statisticheskoye upravleniye Kuybyshevskoy oblasti (for all, except Khaustova).
- (Kuybyshev Province--Statistics)

BIRYUKOVA, M.Ya.; VERKHOVSKIY, A.L.

Course of pregnancy and labor in hypotension. Akush. i gin. 38
no.5:64-67 S-0 '62. (MIRA 17:11)

1. Iz Rodil'nogo doma No.2 (glavnyy vrach A.L. Verkhovskiy) goroda
Kirova.

BIRYUKOVA, N.

Oak

Improved devices for spot seeding of oak. Les 1 step' No.3, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952.
Unclassified.

BIRYUKOVA, N.,; CHERNYAK, A., vrach; GRACHEVA, A., strakhovyy
delegat; KULAKOVA, V., tkachikha; KONSTANTINOVA, N., doverennyy
vrach; KHMELEVA, V.

Payments out of state funds are not "a burden." Okh.truda i
sots.strakh. 5 no.1:24-25 Ja '62. (MIRA 15:2)

1. Zamestitel' nachal'nika medsanohasti Gus'-Khrustal'nogo
savoda imeni Dzerzhinskogo (for Biryukova). 2. 2-ya
Kovrovskaya bol'nitsa (for Chernyak). 3. Vladimirsкая
kontora svyazi (for Gracheva). 4. Karabanovskiy tekstil'nyy
kombinat (for Kulakova). 5. Moskovskiy gorodskoy sov't
professional'nykh soyuzov (for Konstantinova). 6. Spetsial'nyy
korrespondent zhurnala "Okhrana truda i sotsial'noye
strakhvaniye" (for Khmeleva).
(Vladimir Province—Medicine, Industrial)

BIRYUKOVA, N. G.

GETSOV, David Iosifovich; KRYUCHKOV, Stepan Alekseyevich; KRACHINO, V.V.,
redaktor; BIRYUKOVA, N.G., redaktor; ANDREYENKO, Z.D., redaktor
izdatel'stva; LAVRENOVA, N.B., tekhnicheskiy redaktor

[Ship communication systems and signaling] Vnutrisudovaya svyaz'
i signalizatsiya. Moskva, Izd-vo "Morskoi transport," 1957. 311 p.
(Merchant marine--Signaling) (MIRA 10:9)
(Telephone) (Ships--Equipment supplies)

1. BIRYUKOVA, N. M.
2. USSR (600)
4. Windbreaks, Shelterbelts, etc.
7. In the Belgorod-Don National Forest Belt. Les i step' 4 no. 12, 1952
9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

BIRYUKOVA, N.V., kand.geograficheskikh nauk

Use of organic luminophors to determine the movement of sand drifts.
Trudy TSNIIMF 7 no. 32:85-88 '61. (MIRA 14:5)
(Luminescent substances) (Sand)

MAMEDNIYAZOV, O.N.; SHULIKA, M.N.; GLADYSHEVA, L.Ye.; BUSHLYAKOVA, N.D.
BIRYUKOVA, N.V.

Effect of vitamins B₁₂ and B₆ on the growth and development
of silkworm caterpillars. Izv. AN Turk. SSR. Ser. biol. nauk
no.3:50-54 '65. (MIRA 18:9)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR.

SIFMAN, Raissa Iosifovna; BIRYUKOVA, R.I., red.; MATVEYEVA, M.M.,
tekhn. red.

[Statistics on health protection for the mother and the
newborn infant] Statistika okhrany zdorov'ia materi i novo-
rozhdennogo. Moskva, Medgiz, 1963. 130 p. (MIRA 17:1)

BIRYUKOVA, R. N.

BIRYUKOVA, R. N. - "Prolongation of Life and Statistics on Illness."
Sub 4 Nov 52, Central Inst for the Advanced Training of Physicians.
(Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

BIRYUKOVA, R.N. (Moskva)

Soviet public health system and longevity. Med. sestra no.11:7-11
N 154. (MLRA 7:12)

(PUBLIC HEALTH
in Russia, eff. on longevity)

(LIFE EXPECTANCY
longevity, relation to public health in Russia)

DERYABINA, V.L.; ALEKSANDROV, O.A.; BIRYUKOVA, R.N.

Scientific session of the Semashko Institute of Public Health
Organization and the History of Medicine of the Academy of Medical
Sciences of the U.S.S.R. Sov.zdrav. 14 no.3:53-57 My-Je '55.
(PUBLIC HEALTH) (MIRA 8:7)

BIRYUKOVA, R.N.; MAMANNIKOVA, N.V.; ROSTOTSKIY, I.B.

"Aid for practical studies on public health organization". K.V.
Maistrakh, I.A.I. Rodov. Reviewed by R.N. Biriukova, N.V. Mamannikova,
I.B. Rostotskii. Sov. zdav. 14 no6:56-60 N-D '55. (MLRA 9;2)

(PUBLIC HEALTH)(MAISTRAKH, K.V.)(RODOV, I.A.I.)

~~BIRYUKOVA~~, B.N., kand.med.nauk, assistant po razdelu sanitarnoy statistiki;
DOGLE, N.V., kand.med.nauk, assistant po razdelu sanitarnoy sta-
tistiki; SLUCHANKO, I.S., kand.med.nauk, assistant po razdelu sani-
tarnoy statistiki; MERKOV, A.M., prof., red.; SADVOKASOVA, Ye.A.,
detsent, red.

[Handbook on the general theory of public health statistics]
Praktikum po obshchei teorii sanitarnoi statistiki. Pod red.
A.M.Merkova i Ye.A.Sadvokasovoi. Moskva, TSentr.in-t usover-
shenstvovaniia vrachei, 1959. 153 p.

(MIRA 14:3)

1. Kafedra organizatsii zdavookhraneniya TSentral'nogo instituta
usovershenstvovaniya vrachey (for Biryukova, Dogle, Sluchanko).
(PUBLIC HEALTH--STATISTICS)

BIRYUKOVA, R.N., kand. med. nauk

Some statistical data on rheumatic fever. Sov. med. 23 no.5:130-143
My '59. (MIRA 12:7)

1. Iz kafedry organizatsii zdavookhraneniya (zav. - prof. N. A. Vinogradov) Tsentral'nogo instituta usovershenstvovaniya vrachey i Moskovskoy gorodskoy klinicheskoy ordena Lenina bol'nitsy imeni S. P. Botkina (glavnyy vrach - prof. A.N. Shabanov, zav. byuro sanitarnoy statistiki N. M. Rabinovich).

(RHEUMATISM, statist.
in Russia (Rus))

BIRYUKOVA, R.N., kand.med.nauk (Moskva)

"Problems in the control of cardiovascular diseases at industrial enterprises." Edited by B.P.Kushelevskii. Reviewed by R.N.Biriukova.
Zdrav. Ros. Feder. 5 no.5:42 My '61. (MIRA 14:5)
(CARDIOVASCULAR SYSTEM—DISEASES) (INDUSTRIAL HYGIENE)
(KUSHELEVSKII, B.P.)

BIRYUKOVA, R.N. (Moskva)

Effect of some important causes of death on the average longevity
of the population. Sov.zdrav. 20 no.5:92-96 '61. (MIRA 14:5)
(LONGEVITY)

BIRYUKOVA, R.N.

Use of mathematical methods in teaching biology and medicine. Sov.
zdrav. 20 no.9:99-100 '61. (MIRA 14:12)

(MEDICINE STUDY AND TEACHING)

(BIOLOGY STUDY AND TEACHING)

BIRYUKOVA, Raisa Natanovna, kand. med. nauk; MAZUR, M.M., red.;
~~KAINSON, I.Ya., tekhn. red.~~

[Public health statistics in the research and practical
work of public health education; a manual for physicians]
Sanitarnaia statistika v nauchnoi i prakticheskoi rabote
po sanitarnomu prosveshcheniiu; posobie dlia vrachei.
Moskva, In-t sanitarnogo prosveshcheniia M-va zdravookhra-
neniia SSSR, 1962. 67 p. (MIRA 15:7)
(PUBLIC HEALTH--STATISTICS)

BIRYUKOVA, R.N.; SLUCHANKO, I.S.; DOGLE, N.V.; MERKOV, A.M., prof.,
red.;

[Public health statistics; a study manual] Sanitarnaia statistika; uchebnoe posobie. Utverzhdeno kafedroi organizatsii zdavookhraneniia TsIU 31. VII 1961 g. Moskva, 1962. 66 p.
(MIRA 15:8)

1. Moscow. Tsentral'nyy institut usovershenstvovaniya vrachev.
(PUBLIC HEALTH--STATISTICS)

BIRYUKOVA, R.N.

"Study of the concrete causes of disease according to data
from case histories" by E.L.Notkin. Reviewed by R.N.Biriukova.
(MIRA 15:12)
(DISEASES—CAUSES AND THEORIES OF CASUSATION)
(NOTKIN, E.L.)

BIRYUKOVA, R.N.; DOGLE, N.V., dots.; SLUCHANKO, I.S.; MERKOV, A.M.,
Inzh., red.

[Practical aid in using health statistics] Praktikum po
primeneniiu sanitarnoi statistiki. Moskva, TSentr. in-t
usovershenstvovaniia vrachei, 1964. 255 p.
(MIRA 18:2)

TIMOFEYEV, D.V.; BIRYUKOVA, R.P.

Operating conditions of condensers in systems with transverse-capacitive compensation. Prom. energ. 16 no.12:21-26 D '61.

(MIRA 14:12)

(Electric networks) (Electric current rectifiers)
(Condensers (Electricity))

ORLENKO, Yu.M., doktor med.nauk; BRUSNITSYNA, M.P.; BIRYUKOVA, S.N.

Immediate and late results of different surgical interventions
for perforating ulcers of the stomach and duodenum. Khirurgiia
no.3:47-51 '62. (MIRA 15:3)

1. Iz Ukrainskogo instituta perelivaniya krovi i neotlozhnoy
khirurgii i kafedry obshchey khirurgii Khar'kovskogo meditsin-
skogo instituta.

(PEPTIC ULCER) (STOMACH--SURGERY) (DUODENUM--SURGERY)

L 05136-67

EWI(1) RO/JK

1011-30

ACC NR: AP6031137

SOURCE CODE: UR/0438/66/028/004/0080/0083

14B

AUTHOR: Nechayeva'ska, M. R. -- Nechayevskaya, M. R. ; Kalynychenko, M. F. --
Kalinichenko, N. F. ; Bergol'tseva, L. A. -- Berhol'tseva, L. A. ; Biryukova,
S. V. ; Berezhkivs'ka, L. Ya. -- Berezhkovskaya, L. Ya.

ORG: Khar'kov Institute of Vaccines and Serums im. Mechnikov (Kharkivs'kyi
institut vaktsh i sprovatok)

TITLE: Fillers for casein nutrient media used in the study of toxin formation by
gas

SOURCE: Mikrobiologichnyy zhurnal, v. 28, no. 4, 1966, 80-83

TOPIC TAGS: toxin, anatoxin, gas gangrene, experimental nutrient media,
toxin formation/porolon

ABSTRACT: New standard fillers--porolon, fibrin, and sawdust, proved them-
selves good substitutes for the ground meat and millet usually used in the culture
and production of gas gangrene toxins. The toxins and toxoids of *Cl. oedematiens*,
Cl. perfringens, and *Cl. septicum* showed a high degree of activity in casein
hydrolysate nutrient media containing porolon, fibrin, or sawdust fillers. The

Card 1/2

L 05136-67

ACC NR: AP6031137

toxoids obtained were harmless to laboratory animals. Orig. art. has: 2 tables.
[W.A. 50] [GC]

SUB CODE: 06/ SUBM DATE: 05Nov65/

Card 2/2

WASD L 05134-67 EWT(1) JK

244-50

ACC NR: AP6031134 SOURCE CODE: UR/0438/66/028/004/0056/0061

19.

B

AUTHOR: Nechayevs'ka, M. R. -- Nechayevskaya, M. R. ; Cherkas, G. P. --
Cherkes, G. P. ; Kalinichenko, M. F. -- Kalinichenko, N. F. ; Biryukova, S. V. ;
Berezhkivs'ka, L. Ya. -- Berezhkovskaya, L. Ya. ; Pidgorna, L. G. -- Podgornaya,
L. G. ; Mukhina, A. O. -- Mukhina, A. A. ; Polchenko, O. T. ; Leybova, I. M. ;
Konik, V. Ya.

ORG: Khar'kov Institute of Vaccines and Sera im. Mechnikov (Kharkivs'kyi
institut vaktsin i sirovstok)

TITLE: Formation conditions of anatoxins of Clostridium perfringens, Cl.
Oedematiens and Cl. septicum from toxins obtained in meatless media

SOURCE: Mikrobiolohichnyy zhurnal, v. 28, no. 4, 1966, 56-61

TOPIC TAGS: toxoid, toxin, clostridium perfringens, Clostridium oedematiens,
Clostridium septicum, bacteria toxin

ABSTRACT: Detoxification conditions for Clostridium perfringens, Cl. oedematiens
and Cl. septicum toxins were studied. Cl. perfringens is best denatured by adding
two doses of 0.3 and 0.2% formaline at 24-hr-intervals, while maintaining the pH

Cord 1/2

L 05134-67

ACC NR: AP6031134

of the medium between 7.2—7.4, and the temperature at 38C. Detoxification takes seven to ten days under these conditions. The antitoxin-fixing activity of the toxoid obtained fluctuates between 4 and 8 EC with the native toxin titer being 400—800 Dlm/ml. The best procedure for denaturation of Cl. oedematiens toxin is addition of 0.4% Formalin. A temperature of 38C is maintained for two days, followed by storage at room temperature for 5—7 days. Toxoids with antitoxin-fixing activities of 70--120 EC and a native toxin activity of 15,000--22,000 Dlm/ml were obtained. The Cl. septicum was denatured with minimum loss of antitoxin-fixing properties by the addition of two consecutive doses of 0.15 and 0.1% Formalin, at 38C for two days with subsequent storage at room temperature for 5—7 days. The resulting toxoids have an activity of 2--4 EC with native toxin titers of 200--400 Dlm/ml. [Based on authors' abstract] [W.A.50] [GC]

SUB CODE: 06, 13/ SUBM DATE: 07Apr65/

Card 2/2

BIRYUKOVA, T. Ye.
BIRYUKOVA, T.Ye.; YEVSEYEVA, I.V.; IVANOVA, V.V.; LEVANDO, Ye.P.
~~NEKRASOVA, O.I.~~

Using L.G. Berg's method for determining phase composition of
carbonate rock; preliminary report. Mat. VSEGEI Litol. no.1:144-158
'56. (MIRA 11:2)

(Carbonates (Mineralogy--Analysis))

NEKRASOVA, O.I.; BIRYUKOVA, T.Ye.

Utilizing results of the thermal and volumetric determination
of carbonate rocks in facies analysis. Trudy VSEGEI 72:149-153
'62² (MIRA 15:9)

(Rocks, Carbonate--Analysis)

BIRYUKOVA, V., nauchnyy sotrudnik; RYBAKOVA, M., kand. biol. nauk.

Biological investigation of the development of crops on
fields where chemical weed control is applied. Nauka i pered. op.
v sel'khoz 8 no.12:54-55 D '58. (MIRA 12:1)
(Field crops) (Herbicides).

ZHUKOVA, T.; SARANIN, K.; BELYAYEV, I.; TYMCHINKO, L.; BIRYUKOVA, V.;
KHOKHLOV, F.; YERMOLAYEV, P.; MORYGANOV, A.; BUTIKOV, Yevg.;
CHIRKOV, Yu., starshiy nauchnyy sotr.; POLYAKOVA, V., red.;
USTINOVA, S., tekhn. red.

[Corn] Kukuruza. Moskva, Mosk. rabochii, 1962. 99 p.

(MIRA 15:12)

1. Nauchnyye sotrudniki Nauchno-issledovatel'skogo instituta
sel'skogo khozyaystva tsentral'nykh rayonov nechernozemnoy
zony (for all except Chirkov, Polyakova Ustinova). 2. TSent-
ral'nyy institut prognozov (for Chirkov).

(Corn (Maize))

BIRYUKOVA, V.A., red.; MEL'NIKOVA, A.N., red.; KHROMCHENKO, F.I., red.
Izd-va; ROMANOVA, V.V., tekhn.red.

[Tables for calculating plane conformal Gauss coordinates within
the latitude limits of 30° to 80°; Krasovskii's ellipsoid]
Tablitsy dlia vychisleniia ploskikh konformnykh koordinat Gaussa
v predelakh shirot ot 30° do 80°; ellipsoid Krasovskogo. Moskva,
Izd-vo geod.lit-ry, 1958. 119 p. (MIRA 12:5)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodesii i
kartografii.

(Geodesy--Tables, etc.)

YAROVY, L.V.; BEREZHNOY, M.A.; SHALOMAYENKO, V.A.; BLAYUKOVA, V.F.

Clinical and epidemiological characteristics of a familial outbreak of encephalitis. Sov. med. 25 no.10:130-131 0 '61. (MIRA 15:1)

1. Iz kliniki infektsionnykh bolezney (zav. - dotsent L.V.Yarovoy)
i kliniki nervnykh bolezney (zav. - dotsent M.A.Berezhnoy)
Stavropol'skogo meditsinskogo instituta.
(ENCEPHALITIS)

PERCHONOK, I.S.; PRAVOVEROV, K.N.; BIRYUKOVA, V.I.

Use of gas infrared radiators in the production of structural parts.
Gaz. prom. 10 no.6:32-34 '65. (MIRA 18:6)

MAR'YAMOV, N.B., kand.tekhn.nauk; BIRYUKOVA, V.I., inzh.

Study of convective drying of gypsum cement panels. Stroi.mat.
7 no.8:36-38 Ag '61. (MIRA 14:8)
(Plaster board—Drying)

MAR'YAMOV, N.B., kand.med.nauk; BIRYUKOVA, V.I., inzh.

Heat engineering properties of the vertical steam-curing chamber.
Bet.1 zhel.-bet. 8 no.4:163-165 Ap '62. (MIRA 15:5)
(Concrete-Curing) (Autoclaves)

BIRYUZOVA, V.I.; KONDRATENKO, V.G.

Ultrastructural changes in the irradiated cells of a bone marrow culture. Radiobiologiya 4 no.1:123-128 '64. (MIRA 17:4)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii
AN SSSR, Moskva.

БИРЮКОВА В. К.

USSR/Chemistry Physical chemistry

Card : 1/1

Authors : Pozner, E. I. and Biryukova, V. K.

Title : Solubility of salt in the presence of two other salts with general ion

Periodical : Zhur. fiz. khim. 28, Ed. 6, 1036 - 1042, June 1954

Abstract : The relation between the solubility of salt in water and the concentration of two other salts, having a common ion with the former salt, is presented by an empirical equation. The functional dependence, which is graphically expressed, makes it possible to calculate the solubility of the salt in the presence of different ratios of the other two salts. A new method for the study of salt equilibriums, is described. Ten USSR references. Tables, graphs.

Institution : Acad. of Sc. Uzbek-SSR, Chemical Institute and the Central Asiatic State University

Submitted : July 25, 1953

USSR/ Chemistry Physical chemistry

Card : 1/1 Pub. 147 - 8/25

Authors : Pozner, E. I., and Biryukova, V. K.

Title : Solubility of salt in the presence of two other salts with common ion.
Part 2.

Periodical : Zhur. fiz. khim. 28/7, 1225 - 1227, July 1954

Abstract : Empirical equation for determining the solubility of a salt in the presence of two other salts having a common ion with the latter. The applicability of this empirical equation (introduced by E. I. Pozner) to four and three-salt-systems, connected with a common ion (water), was confirmed by the perfect analogy of the molar fractions of the common ion. Six USSR references (1932 - 1954). Table; graphs.

Institution : Acad. of Sc. Uzb-SSR, Chemical Institute, Tashkent

Submitted : July 25, 1953

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CIA-RDP86-00513R000205410009-0

1. The first part of the document is a list of the names of the individuals who were involved in the project. The names are listed in alphabetical order.

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CIA-RDP86-00513R000205410009-0"

121K YOKOVA, V.N.

IVANOV, A.G.; KRUCHININA, Ye. V.; PONKIN, P.F.; CHURILIN, A.A.; TRUSOVA,
L.P.; ASTROV, Ye. I.; BIRYUKOVA, V.N.

Increasing the performance and operational indices of saws. Der.
prom. 7 no. 5:8-12 My '58. (MIRA 11:7)

(Saws)

ASTROV, Ye.I., kand. tekhn. nauk; CHICHKANOV, A.I., inzh.; TIKHONOV, N.N.;
BIRYUKOVA, V.N., inzh.

Rolling of stainless Kh17M2 steel for the production of universal
strips. Obr. met. davl. no.5:62-72 '59. (MIRA 13:3)

1.Gor'kovskiy metallurgicheskiy zavod.
(Rolling (Metalwork)) (Steel, Stainless)

18(7)

AUTHORS:

SOV/32-25-4-60/71

Astrov, Ye. I., Head of the Central Laboratory of the Plant
Mentioned Below, Biryukova, V. N., Head of the Metallographic
Laboratory of the Same Plant

TITLE:

On GOST for Methods of Determining the Grain Size in Steel
(O GOSTe na metody opredeleniya velichiny zerna v stali)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 501-502 (USSR)

ABSTRACT:

According to GOST 5639-51 the size of austenite and actual steel grains is determined by the cementation and oxidation methods, and both methods are considered to be equally effective. Practice shows, however, that in some cases the two methods may yield completely different sizes of cementation grain. This fact was, in the case under review, studied on steel samples of the grade 20KhNM, and it was found that the grain obtained by the cementation method (Fig a) was considerably larger than that obtained by the oxidation method (Fig b). Since this difference cannot always be observed it is assumed that grains of equal size are obtained only in the case of steels which exhibit only a slight tendency for the austenite grain to grow when the steel is heated to temperatures above the critical interval. For this reason it is

Card 1/2

On GOST for Methods of Determining the Grain Size in Steel SOV/32-25-4-60/71

recommended to lengthen the oxidation time from 3 to 6-8 hours to make sure that the results obtained by both methods are identical. In the GOST the number of sample surfaces to be studied is not given, a matter which should be decided. Final rules governing the determination of the grain sizes of hypereutectoid and ledeburite steels will also be required, as well as standardization of the heating temperature for steels suitable for constructions, which according to Geller (Ref 3) ought to be 800-810° for hypereutectoid steels U10, U13, F and V1; 820-830° for steels Kh05, ShKh6, and KhV5, 850-860° for steels Kh, Kh09, 9Kh, 85KhF, and KhG. Moreover, it would be necessary to include in the GOST standards a series of other steel types. There are 2 figures and 3 Soviet references.

ASSOCIATION: Gor'kovskiy metallurgicheskiy zavod (Gor'kiy Metallurgical Plant)

Card 2/2

RESHETNIKOV, N.S., dots.; LEVANOVA, R.V., inzh.; RASHKOVSKAYA, A.N., inzh.;
ANTONOVA, G.P., tekhnik; ANIKIYENKO, O.M., tekhnik; KORESHKOVA, V.I.
tekhnik; KROTOVA, T.N., tekhnik; BIRYUKOVA, V.H., tekhnik; PAVLYUKOVA,
S.N., tekhnik; PARAKHINA, N.L., tekhn. red.

[Album of working drawings of parts and units of the TDT-60 tractor]
Al'bom rabochikh chertezhei detalei i uzlov traktora TDT-60. Moskva,
Goslesbumizdat. Pt.2. [Xcept the motor] Krome dvigatel'ia. 1959. 388 p.
(MIRA 14:12)

1. Khimki. tsentral'nyy nauchno-issledovatel'skiy institut mekhaniza-
tsii i energetiki lesnoy promyshlennosti. 2. Laboratoriya tipovoy
tekhnologii remonta lesozagotovitel'nogo oborudovaniya i organizatsii
remontnykh predpriyatiy TSentral'nogo nauchno-issledovatel'skogo in-
stituta mekhanizatsii i energetiki lesnoy promyshlennosti (for all
except Levanova, Parakhina).

(Tractors--Design and construction)

RESHETNIKOV, N.S., dotsent; LEVANOVA, R.V., inzh.; RASHKOVSKAYA, A.N.,
inzh.; KHAZOV, I.I., inzh.; ANTONOVA, G.P., tekhnik; ANIKIYENKO,
O.M., tekhnik; KORESHKOVA, V.I., tekhnik; KROTOVA, T.N., tekhnik;
BIRYUKOVA, V.N., tekhnik; GOROKHOV, M.G., red.izd-va; PARAKHINA,
N.L., tekhn.red.

[Album of working drawings of parts and units of MAZ-200 and
MAZ-501 trucks] Al'bom rabochikh chertezhei detalei i uslov
avtomobilei MAZ-200 i MAZ-501. Moskva, Goslesbumizdat. Pts.2-3.
1960. 319 p. (MIRA 14:7)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut mekhani-
zatsii i energetiki lesnoy promyshlennosti. 2. Nachal'nik labora-
torii tipovoy tekhnologii remonta mashin i organizatsii remontnykh
predpriyatiy TSentral'nogo nauchno-issledovatel'skogo instituta
mekhanizatsii i energetiki lesnoy promyshlennosti (for Reshetnikov).
(Motortrucks--Equipment and supplies)

BIRYUKOVA, V.N.

Isothermal hardening of tool steels. Metalloved. i term.obr.met.
no.9:53-57 S '65. (MIRA 18:10)

1. Gor'kovskiy metallurgicheskiy zavod.

Biryukova, V. S.

✓ Chemical control of weeds. V. S. Biryukova. *Moskov. Kolkhoznik* 1953, No. 6, 28-9; *Referat. Zhur., Khim.* 1953, No. 9305.—A 2,4-DU prepn. (I) at 1 kg./ha. controlled dicotyledonous weeds (orache, wild radish, odorless camomile, thistle, etc.) in fields of grass. I cannot be used in fallows of dicotyledonous cultivation (vetch, mustard, potato, clover) because they are sensitive to very weak concns. of I. Two kg. of I/ha. or in mixt. with OP-7 controlled perennial weeds, including rose thistle and yellow thistle.

Marjorie Keizer

N

USSR / Weeds and Weed Control.

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58817

Author : Biryukova, V. S.
Inst : Scient.-Research Institute of Agriculture of Central
Rayons of Non-Chernozem Belt
Title : Utilization of Herbicides to Control Perennial
Dicotyledonous Weeds

Orig Pub : Byul. nauchno-tekhn. inform. N.-1. in-ta zemled.
tsentr. r-noo nacherno-zemn. polocy, 1957, 2, 19-23

Abstract : Shallow plowing of the stubble at a depth of 10 cm
and the substitution of shallow plowing by double
tilling at a depth of 14 cm in the system of fall
plowing and in vetch-oat fallow, inhibited the
regeneration of sprouts of Canada thistle more than
in shallow plowing at a depth of 5 cm. The application
of 2.4-D in doses of 2 kg of active substance per ha

Card 1/:

. USSR / Weeds and Weed Control.

N

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58817

(after rye) were respectively, 20.2 and 16.0 cwt per
ha. -- A. M. Shchepetil'nikova

Card 3/3

BIRYUKOVA, V.S.

Methods for organizing the agricultural utilization of clearings.
Zemledelie 6 no.9:75-77 S '58. (MIRA 11:9)
(Tillage)

BIRYUKOVA, V.S., starshiy nauchnyy sotrudnik (st. Nemchinovka, Kalininskoy
zheleznoy dorogi)

Herbicides in pea and forage lupine fields. Zashch.rast.ot vred.
i bol. 7 no.4:34-35 Ap '62. (MIRA 15:12)
(Moscow Province--Peas) (Moscow Province--Lupine)
(Herbicides)

BIRYUKOVA, V.V., adres avtora: Leningrad, V.O.21 liniya d.16, kv.42.

Comparative rating of manual and mechanical methods of resetting
bones in closed fractures of the distal epiphysis of the radius.
Vest.khir.74 no.7:57-63 O-M '54. (MLRA 8:10)

(FRACTURES,

radius epiphysis, reposition, comparison of manual
& mechanical methods)

(RADIUS, fractures,

epiphyseal, reposition, comparison of manual &
mechanical methods)

BIRYUKOVA, V.V., kandidat meditsinskikh nauk

Cholecystography using bilitrast as a supplementary method in the diagnosis of chronic cholecystitis. Vest.khir. 75 no.4:57-63 My '55.
(MIRA 8:8)

1. Iz kafedry khirurgii Gosudarstvennogo ordena Lenina instituta usovershenstvovaniya vrachev im. S.M.Kirova. Leningrad, V.O., 21-ya liniya, d. 16, kv. 42.

(CHOLECYSTITIS, diagnosis,

cholecystography with use of bilitrast)

(CONTRAST MEDIA,

bilitrast in cholecystography, diag. of cholecystitis)

(CHOLECYSTOGRAPHY, in various diseases,

cholecystitis, use of bilitrast)

BIRYUKOVA, V.V., kandidat meditsinskikh nauk (Leningrad, V.O., 21-ya liniya
d. 16, kv. 42)

Treatment of thermal burns with aseptic moist bandages [with
summary in English, p.160] Vest. khir. 77 no.2:80-83 F '56
(MIRA 9:6)

1. Iz 2-y khirurgicheskoy kliniki (i.o. zav.-prof. G.A. Gomzyakov)
Gosudarstvennogo ordena Lenina instituta usovershenstvovaniya
vrachey imeni S.M. Kirova.

(BURNS, ther.

aseptic moist bandage)

(BANDAGING AND DRESSING

aseptic moist bandage in ther. of burns)

BIRYUKOVA, V.V., kand.med.nauk (Leningrad, B.O., 21-ya liniya, d. 16,
kv. 42)

Treatment of complete external fistula of the anus and rectum
by three-channel drainage [with summary in English]. Vest.khir.
82 no.2:72-76 F '59. (MIRA 12:2)

1. Iz 2-y khirurgicheskoy kliniki (zav. - prof. G.A. Gomzyakov)
Leningradskogo ordena Lenina instituta usovershenstvovaniya
vrachey imeni S.M. Kirova.

(ANUS, fistula

anorectal, surg., excis. with three-channel
drainage (Rus))

(RECTUM, fistula,
same)

BIRYUKOVA, V.V., kand.med.nauk

Immediate results of the treatment of patients with stenocardia
by a retrosternal novocaine block. Vest.khir. 86. no.2:90 '61.
(MIRA 14:2)

1. Iz 2-y khirurgicheskoy kliniki (zav. - prof. G.A. Gomsyakov)
Leningradskogo gosudarstvennogo ordena Lenina instituta usover-
shenstvovaniya vrachey im. S.M. Kirova.
(NOVOCAINE) (ANGINA PECTORIS) (LOCAL ANESTHESIA)

BIRYUKOVA, V.V., kand. med. nauk (Leningrad, V.O. 21-ya liniya, d. 16, kv.42)

Spontaneous hemorrhage into the abdominal wall simulating acute
abdomen. Vest. khir. 92 no.1:103-104 Ja '64. (MIRA 17:11)

1. Iz 2-y kafedry khirurgii (sav. - prof. G.A. Gomzyakov) Leningrad-
skogo ordena Lenina instituta usovershenstvovaniya vrachey imeni Kirova.

FURSAIEV, A. D. ; BIRYUKOVA, Ye. G.

Contribution to the study of the formation of vegetation in artificial limans. Uch. zap. Sar. un. 64:45-55 '59. (MIRA 13:9)
(Volga Valley—Pastures and meadows)

EKONOMOV, Lev Arkad'yevich; BIRYUZOVA, Ye.I., red.; MIKHLINA, L.T.,
tekhn. red.

[Sentinels of the sky] Chasovye neba. Moskva, Izd-vo
"DOSAAF," 1962. 100 p. (MIRA 16:1)
(Air defenses)

BIRYUKOVA, YE. S.

Cattle

Results of using Simmenthal cattle for
improving the herd. Sov.zootekh 7 No. 8,
1952.

Kievskaya Nauchno-Issledovatel'skaya Stantsiya
Zhivotnovodstva.

SO: Monthly List of Russian Accessions, Library of Congress, _____ 1953, Uncl.

1. STAROVEROV, N.A.; BEZBORODOVA, YE.S.; BIRYUKOVA, YE.S.
2. USSR (600)
4. Dairy Cattle - Feeding and Feeding Stuffs
7. Raising milk cows on rations consisting primarily of vegetables, N.A. Staroverov, YE.S. Bezborodova, YE.S. Biriukova, Sov.zootekh. 8 no. 3, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

BIRYUKOVA, Ye.S.

Experimental plague in *Meriones tamariscinus* and *Meriones meridianus*
in eastern piedmont regions of the Caucasus. Zhur. mikrobiol. epid.
i immun. 32 no.5:91-96 My '61. (MIRA 14:6)

1. Iz Nauchno-issledovatel'skogo protivochumnogo instituta Kavkaza
i Zakavkaz'ya.

(CAUCASUS—PLAGUE)

(GERBILS—DISEASES AND PESTS)

GORYUSHINA, V.G.; BIRYUKOVA, Ye.Ya.

Photometric determination of sulfur microimpurity in pure
metals and semiconductor materials. Zav. lab. 31 no.11:
1303-1306 '65. (MIRA 19:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut redkometallicheskey promyshlennosti.

GRIGOROVSKIY, A.M. [deceased]; PERESLEGINA, T.G.; BIRYUKOVA, Yu.V.;
MIKHALEV, V.A.

Possibility of using nonpyroforic catalysts in the production
of chemical and pharmaceutical preparations. Med. prom. 15 no.3:
32-35 Mr '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S.Ordzhonidze.
(DRUG INDUSTRY) (CATALYSTS, NICKEL)

S/137/62/000/005/126/150
A160/A101

AUTHORS: Karpov, V. T., Biryukova, Z. D., Makolkin, I. A.

TITLE: Ways of hardening steel products

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 132, abstract 5I800
("Sb. nauchn. rabot. Mosk. in-t nar. kh-va", 1961, no. 20, 124 - 132)

TEXT: It was intended to investigate thermodynamically the possibility of direct chemical reaction of metals (entering the steels) with prussic acid which develops during gaseous cyanidation and ultimately causes the formation of carbides and nitrides of metals, hardening the steel. Simultaneously with the saturation of the steel with nitrogen and carbon (during the gaseous cyanidation in a mixture of CH_4 , CO and NH_3 gases at $800 - 900^\circ\text{C}$) a reaction of NH_3 with C-containing gases occurs in the muffle of the furnace by the following equations:
 $\text{CH}_4 (\text{gas}) + \text{NH}_3 (\text{gas}) = \text{HCN} (\text{gas}) + 3\text{H}_2 (\text{gas})$; $\text{CO} (\text{gas}) + \text{NH}_3 (\text{gas}) = \text{HCN} (\text{gas}) + \text{H}_2\text{O} (\text{gas})$. It is assumed that the prussic acid thermally decomposes by the equation $\text{HCN} (\text{gas}) = \text{N} (\text{gas}) + \text{H} (\text{gas}) + \text{C} (\text{solid})$ and the developing N and C

Card 1/2

S/137/62/000/005/126/150
A160/A101

Ways of hardening steel products

atoms cause an additional saturation of the steel with nitrogen and carbon. The reaction between the prussic acid (prior to decomposition) and the metals likely proceeds by the following scheme: $x\text{Me (sol.)} + y\text{HCN (gas)} = \text{MeC (sol.)} + \text{Me}_x\text{N}_y \text{ (sol.)}$. Computed were the main thermodynamical values (ΔH and ΔZ) in the temperature range of 800 - 1,200°K for the processes in which the carbides and nitrides of metals are simultaneously formed. It was established that during the gaseous cyanidation of complex alloys and steel on Fe-base, together with the processes of their saturation with the atomic N and C at the expense of the partial thermal decomposition of CH_4 , CO, NH_3 and HCN, reactions between the prussic acid and the metal components of the steel are thermodynamically possible. During the process of reactions between HCN and the metals, the following carbides and nitrides of metals are formed: Fe - FeC, Fe_3C , Fe_2N , Fe_4N ; Al - AlN, Al_4C ; Cr - Cr_4C , Cr_3C_2 , Cr_7C_3 , CrN; Mn - Mn_3C , Mn_3N_2 , Mn_4N , Mn_5N_2 , Mn_8N_2 ; Ti - TiC, TiN and Si - SiC, Si_3N_4 . These carbides and nitrides considerably harden the steel and increase the wear-resistance of steel parts. There are 9 references.

[Abstracter's note: Complete translation]

A. Babayeva

Card 2/2

S/123/62/000/014/013/020
A004/A101

AUTHORS: Karpov, V. T. Biryukova, Z. D., Makolkin, I. A.

TITLE: Methods of hardening steel parts

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 14, 1962, 33,
abstract 14B188 ("Sb. nauchn. rabot. Mosk. in-t nar. kh-va", 1961,
no. 20, 124 - 132)

TEXT: The authors present thermodynamic investigations of the possibility of a direct chemical reaction of metals included in the steel composition with the prussic acid forming during gaseous cyaniding. It is shown that, in gaseous cyaniding of complex alloys and steels, a reaction is possible between the prussic acid and the metals, constituents of the steel, together with saturation processes with atomic nitrogen and carbon as a result of the thermal decomposition of CH_4 , CO , NH_3 and HCN . The carbides and nitrides forming in the course of the reaction process between HCN and the metals harden the steel and increase its wear resistance. ✓

E. Spivak

[Abstracter's note: Complete translation]

Card 1/1

BIRYUKOVA, Z.I.

"Further Observations on the Neurotropic Action of the Acridine,"
Farmakol. i Toksikol., 5, No.5, 1942 Chair of Physiologypediatric
Inst.,

BIRYUKOVA, Z. I.

"On the problem of the possibility of effecting a conditioned reflex on the first irritation of the brain," report I, Biryukova, Z. I. "Experiments with mechanical irritation of the brain," report II, Biryukova, Z. I. "Effect of mechanical irritation of the brain on the conditioned secretory and motor reflexes," Trudy Voronezhsk. med. in-ta, Vol. XIV, 1948, p. 171-87

SO: U-2888, 'etopis Zhurnal'nykh Statey, No. 1, 1949

BIRYUKOVA, Z.I.

Brain

Study of stimulation of the cerebral cortex of sportsmen by conditioned motor reflexes

Teor. i prak, fizkul 15, no.7, 1952

BIRYUKOVA, Z.I.

Conditioned respiratory reflexes in man. Dokl. AN SSSR 111 no.6:1378-1381 D '56. (MIRA 10:3)

1. Institut normal'noy i patologicheskoy fiziologii Akademii meditsinskikh nauk SSSR. Predstavleno akademikom A.D. Speranskim. (CONDITIONED RESPONSE) (RESPIRATION)

~~RYBUKHA, Ye.I.~~ kandidat biologicheskikh nauk; RYBUKHA, Ye.I., kandidat
meditsinskikh nauk

Oscillographic study of the cardiovascular system in healthy children.
Pediatrics no.2:49-54 F '57. (MIRA 10:10)

1. Iz kafedry fizicheskogo vospitaniya i vrachebnoy fizkul'tury
II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni I.V.
Stalina.

(OSCILLOGRAPH) (CARDIOVASCULAR SYSTEM)

EXCERPTA MEDICA Sec 2 Vol 12/5 Physiology May 59

1886. PECULIARITIES OF RESPIRATORY CONDITIONED REFLEXES IN
HEALTHY ADULT MAN (Russian text) - Biryukova Z. I. Inst. of Norm.
and Pathol. Physiol., USSR Acad. of Med. Scis, Moscow - ZH. VYSSH.
NERV. DEYAT. 1958, 8/3 (338-345) Graphs 4 Tables 2

The formation of respiratory conditioned reflexes to acoustic stimuli (400 c.p.s.)
in a group of athletes has been studied on the basis of an unconditioned reflex of
interrupted respiration during the inhalation of ammonia. It has been found that
in most subjects the conditioned respiratory reflex is elaborated on the average
after 30 combinations of the conditioned with the unconditioned stimulus. Differ-
entiation is formed within 3 applications of a non-reinforced stimulus. When the
direct conditioned stimulus is replaced by a verbal one, the conditioned respiratory
reflex is formed after the first combination. In some subjects the conditioned re-
spiratory reflex has its peculiar features due to the peculiarities of their higher
nervous activity type. (11, 15*)

BIRYUKOVA, Z.I., kand.med.nauk

Studies on cortical dynamics in athletes under various functional conditions. Vest. AMN SSSR 14 no.11:38-45 '59. (MIRA 13:3)

1. Institut normal'noy i patologicheskoy fiziologii AMN SSSR.
(CEREBRAL CORTEX physiol.)
(SPORTS)

BIRYUKOVA, Z.I.

Evaluation of the dynamics of neural processes in man by means of respiratory conditioned reflexes to metally reproduced muscle activity. Zhur. vys. nerv. deiat 10 no. 4:497-504 J1-Ag '60.

(MIRA 14:2)

1. Institute of Normal and Pathological Physiology, U.S.S.R. Academy of Medical Sciences, Moscow.

(CONDITIONED RESPONSE) (RESPIRATION)

BIRYUKOVA, Z.I.

Mechanism of formation of temporary connections in man. *Fiziol.*
zhur. 46 no.2:148-155 F '60. (MIRA 14:5)

1. From the U.S.S.R. Academy of Medical Sciences Institute of Normal
and Pathologic Physiology, Moscow.
(CONDITIONED RESPONSE)

BIRYUKOVA, Z.I.

Constant nature of conditioned respiratory reflex manifestations and consideration of its significance in the evaluation of cortical dynamics in man. Biul. eksp. biol. i med. 50 no.7:13-17 J1 '60.

(MIRA 14:5)

1. Iz Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.N.Chernigovskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nyy chlenom AMN SSSR V.N.Chernigovskim.

(CONDITIONED RESPONSE)

(RESPIRATION)

BIRYUKOVA, Z. I., Doc MED SCI, "RESPIRATORY AND MOTOR
CONDITIONED REFLEXES OF AHEALTHY ADULT PERSON." LENINGRAD,
1961. (ACAD SCI USSR, INST OF PHYSIOLOGY IM I. P. PAVLOV).
(KL, 3-61, 228).

BIRYUKOVA, Zinaida Ivanovna; VELIKOVSKAYA, P.A., red.; MANINA, M.P., tekhn.
red.

[Higher nervous activity in athletes; study of the typological characteristics of the nervous system] Vysshaia nervnaia deiatel'-nost' sportmenov; issledovanie tipologicheskikh osobennostei nervnoi sistemy. Moskva, Gos. izd-vo "Fizkul'tura i sport," 1961.
290 p. (MIRA 14:10)

(NERVOUS SYSTEM)

(ATHLETES)

BIRYUKOVA, Zinaida Ivanovna; KHOTYANOVA, G.D., red.; FEKLISOVA, T.D.,
tekhn. red.

[Nervous system and sports] Nervnaia sistema i sport. Moskva,
Fizkultura i sport, 1962. 39 p. (MIRA 16:2)
(NERVOUS SYSTEM) (MOVEMENT, PSYCHOLOGY OF) (ATHLETES)

BIRYUKOVA, Z.I.

BIRUKOVA, Z.I., prof.; STUPNIKIN, N.Ye., doctor

Development of biological problems in the field of pediatrics.
Pediatrics 42 no.9:3-4 1963. (BIR 12:5)

1. Iz Instituta pediatrii AN SSSR.

KRASIL'SHCHIKOV, A.I.; ANTONOVA, L.G.; BIRYUKOVA, Z.M.; KARATAYEVA, I.M.;
FIL'CHENKOVA, T.G.

Activated adsorption of nitrogen. Zhur.fiz.khim. 37 no.1:204-206
Ja '63. (MIRA 17:3)

1. Institut azotnoy promyshlennosti.

993. Colorimetric determination of chromium in bronze by means of the EDTA reaction. V. G. Goryushina and E. Ya. Gallis. *Zashch. Lab.*, 1955, 81 (6), 642-644. The colour obtained in the reaction of Cr^{+++} with EDTA (disodium salt) (I) has a max. intensity at pH 3 to 5, it follows the Beer-Lambert law over the concn. range of 5 to 80 μg of Cr in 1 ml of solution, and is completely stable for weeks. Tartaric acid has no effect on the colour, citric acid reduces its intensity and oxalic acid completely prevents its development. To determine Cr in bronze, 0.5 g is dissolved in 25 ml of mixed acid (60 ml of HNO_3 (1 + 1) and 40 ml of H_2SO_4 (1 + 1)), the solution is evaporated to fumes of H_2SO_4 , 70 to 75 ml of water are added and Cu is removed by electrolysis. The solution is diluted to 100 ml in a calibrated flask, 20 ml are treated with 2 ml of 5 per cent. I solution (prepared by dissolving 5 g of I in a small amount of aq. NH_3 , diluting with water, filtering if necessary, neutralising to methyl red with HCl and making up to 100 ml with water), 4 or 5 drops of phenolphthalein indicator, aq. NH_3 to neutralise, and then 5 ml of 2N acetic acid. The solution is boiled for 5 min., cooled, diluted to 50 ml in a calibrated flask, and the extinction is determined by means of a photocolorimeter. A calibration graph is prepared from standards containing 0.1 to 2.0 mg of Cr in 50 ml. The standards can also be used for visual determinations.

G. S. SMITH

Handwritten signature/initials

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410009-0

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205410009-0"

AUTHORS: Goryushina, V.G., Biryukova-Gaylis, Ye.Ya. 32-24-4-7/67

TITLE: The Colorimetric Determination of Small Quantities of Phosphorus in the Presence of Larger Quantities of Vanadium
(Kolorimetricheskoye opredeleniye malykh kolichestv fosfora v prisutstvii bol'shikh kolichestv vanadiya)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 4, pp. 402-403 (USSR)

ABSTRACT: Quantities of up to 1/1000% phosphorus in vanadium pentoxide can be determined colorimetrically if the vanadium is reduced to the quadrivalent form, because then it does not disturb determination. From the present process of analysis it may be seen that this is obtained by means of a saturated Mohr salt solution, in which case the finished reduction is evaluated after going over to a blue coloring. Hereafter the usual phosphorus reagent, a molybdate solution, is added and repeatedly extracted with ether. To the extraction an antimony chloride solution in hydrochloric acid (1 : 1) is added and the color intensity is compared with the standard sample. In the case of determinations of phosphorus in metallic vanadium the latter is at first converted into vanadium

Card 1/2

The Colorimetric Determination of Small Quantities of Phosphorus in the Presence of Larger Quantities of Vanadium 32-24-4-7/67

pentoxide, after which it is treated as above. The sensitivity of the method described amounts to $5 \cdot 10^{-4}\%$ as may be seen from a table. There is 1 table, and 1 reference, 1 of which is Soviet.

ASSOCIATION: Gosudarstvennyy institut malykh i redkikh metallov (State Institute for Rare and Trace Metals)

1. Vanadium--Analysis 2. Phosphours--Determination 3. Hydrogen chloride--Metallurgical effects 4. Colorimetry--Applications

Card 2/2

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